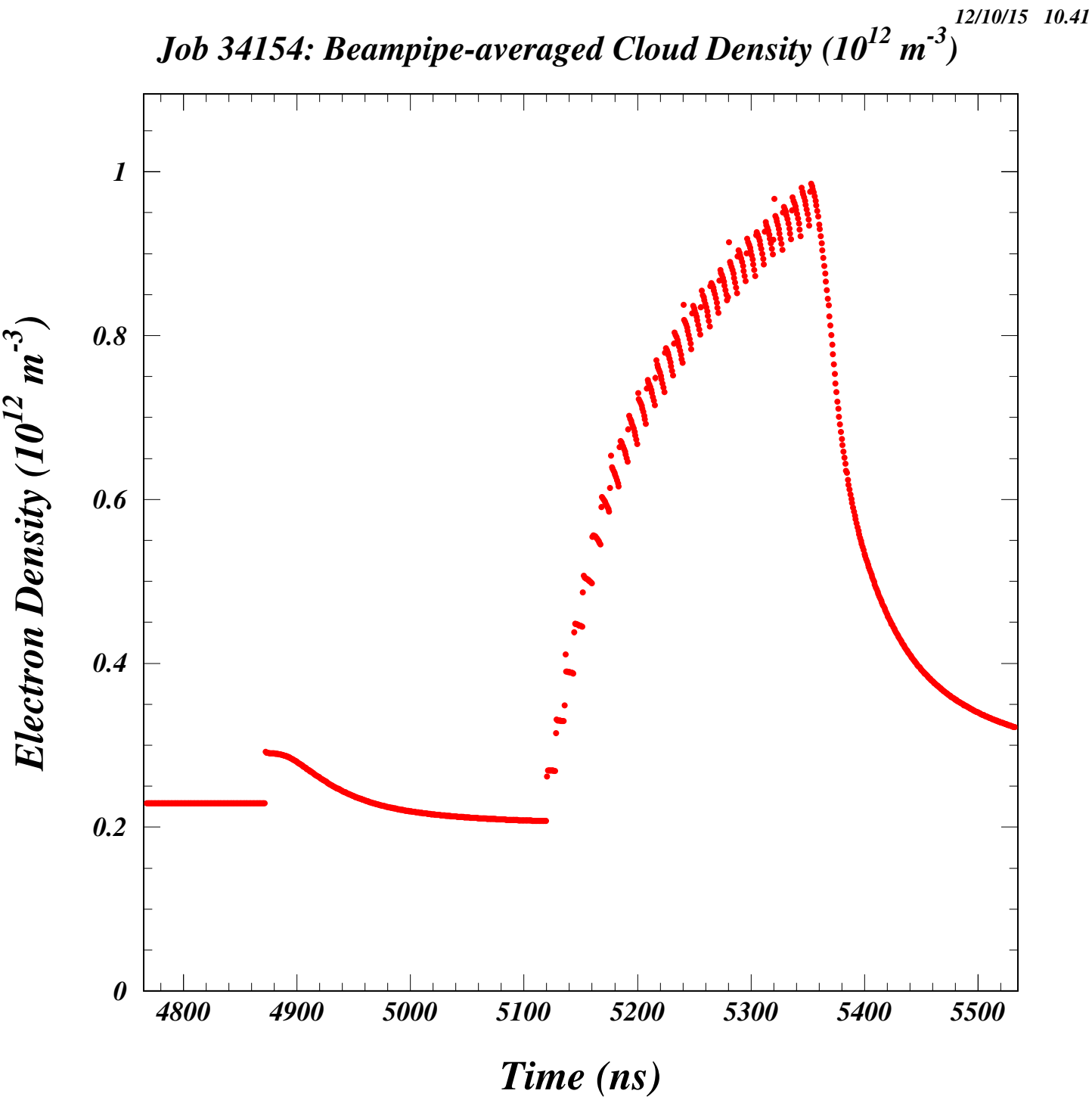
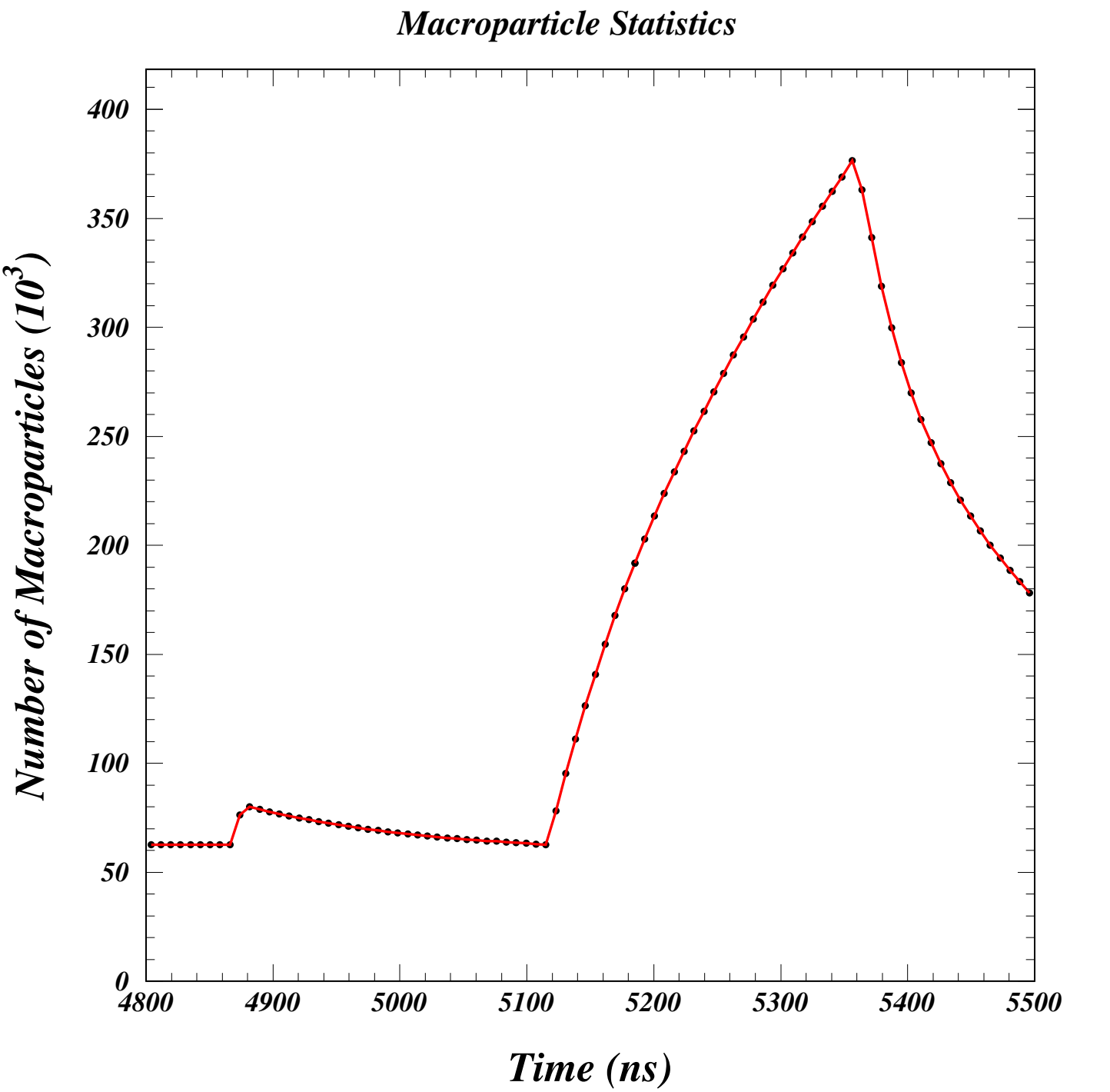
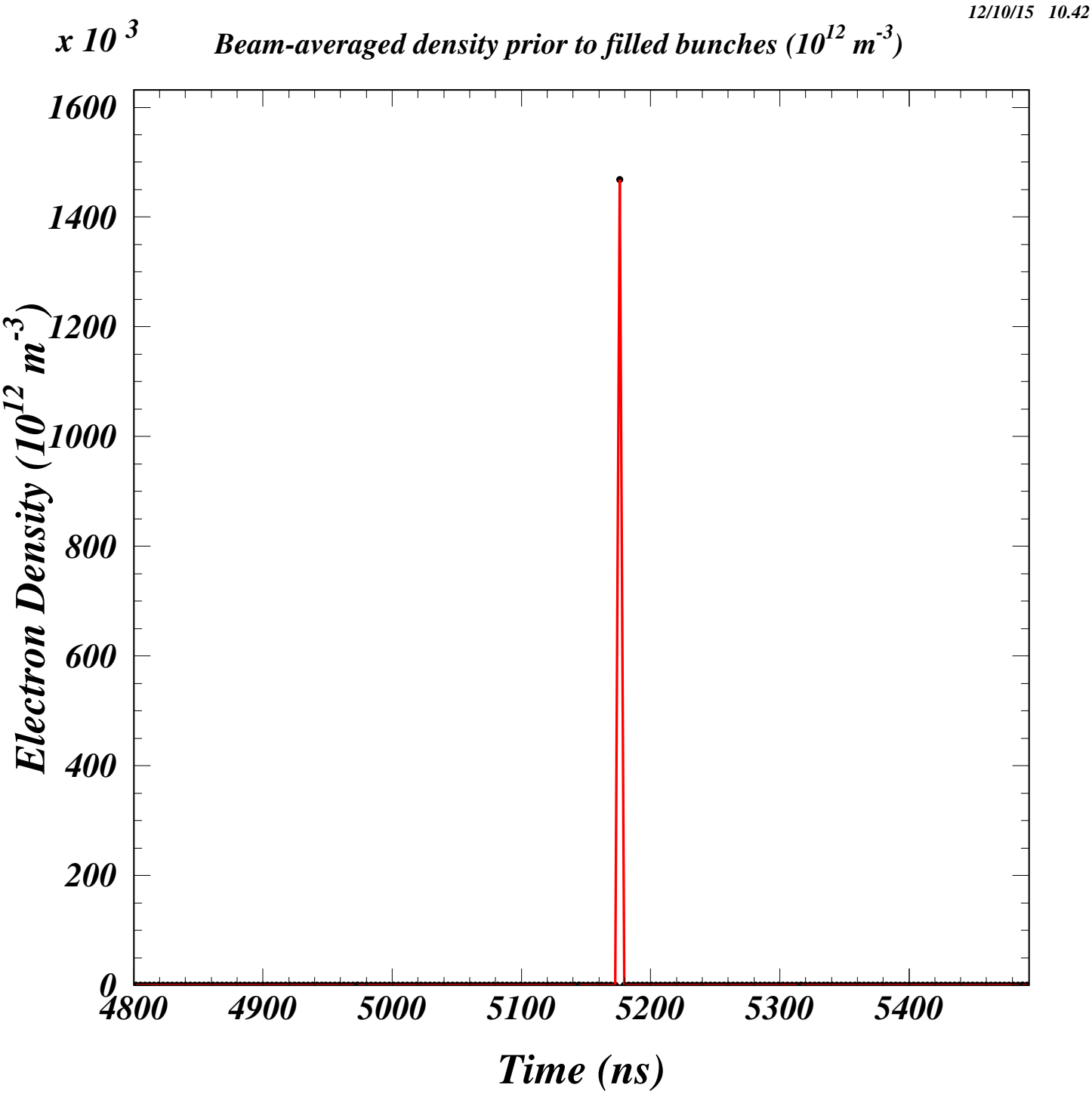
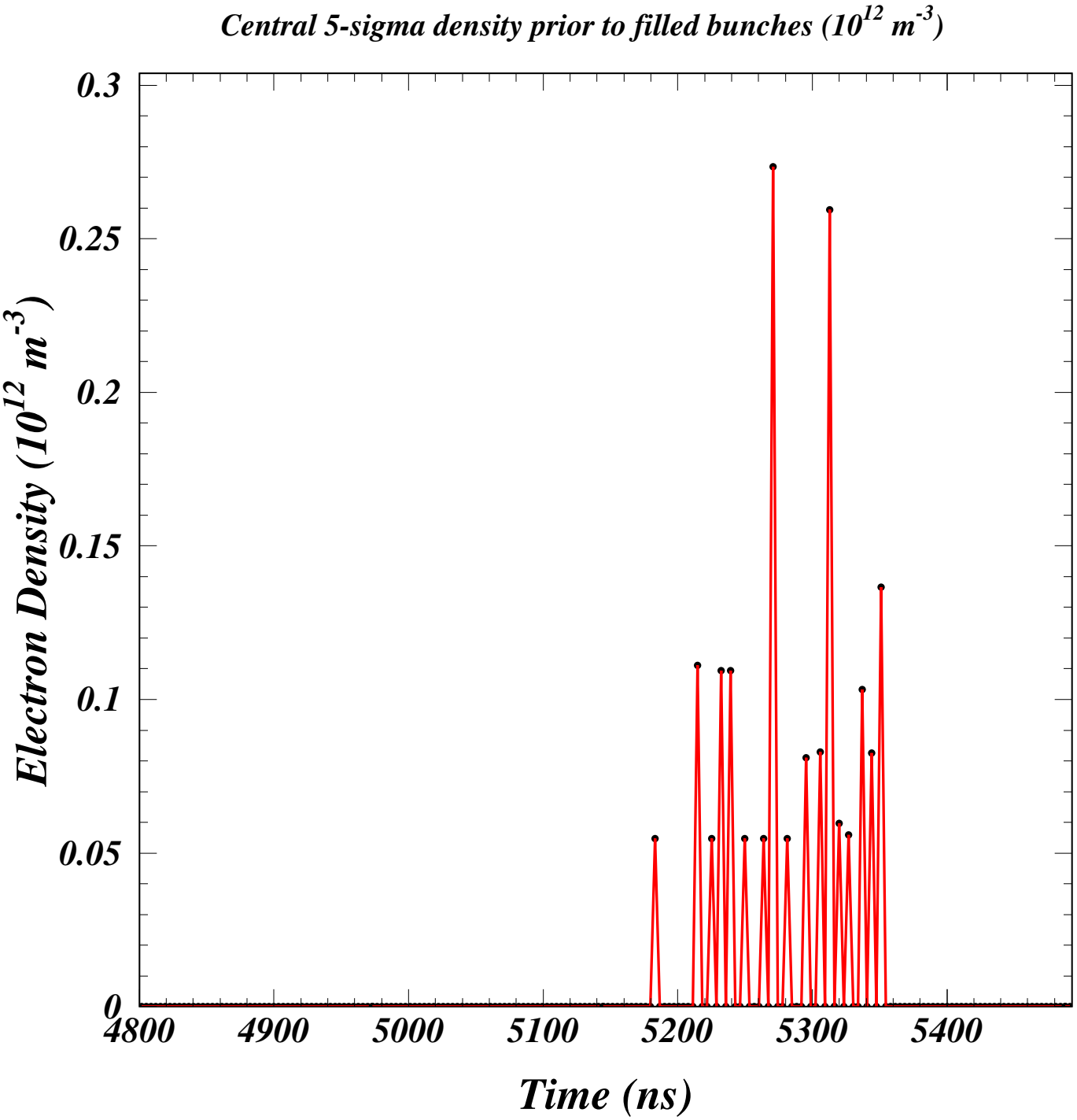

12/10/15 10.41
Job 34154: Beampipe-averaged Cloud Density (10^{12} m^{-3})
Electron Density (10^{12} m^{-3})
1
0.8
0.6
0.4
0.2
0
4800
4900
5000
5100
5200
5300
5400
5500
Time (ns)

12/10/15 10.42

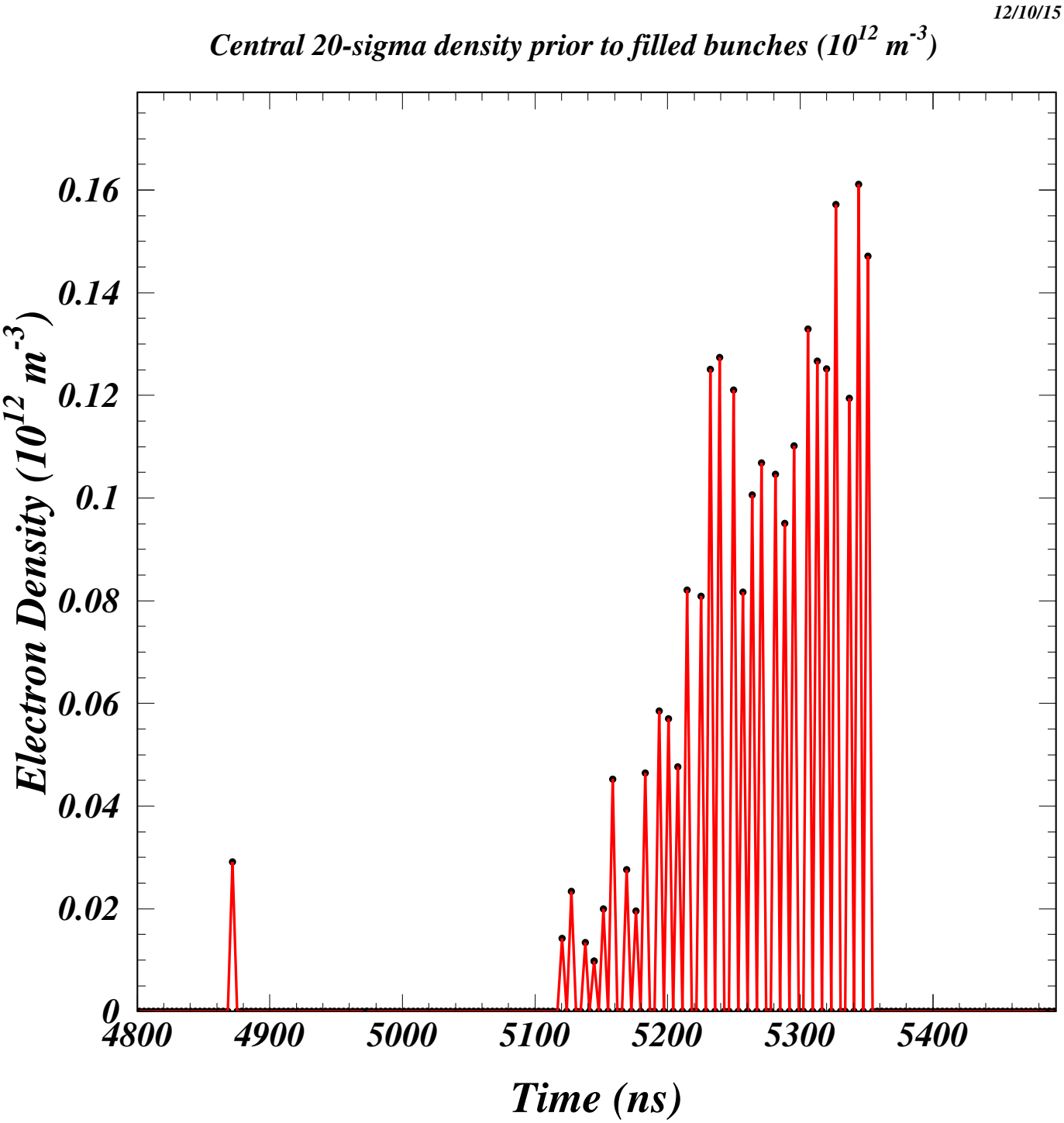

Macroparticle Statistics
Number of Macroparticles (10^3)
400
350
300
250
200
150
100
50
0
4800
4900
5000
5100
5200
5300
5400
5500
Time (ns)

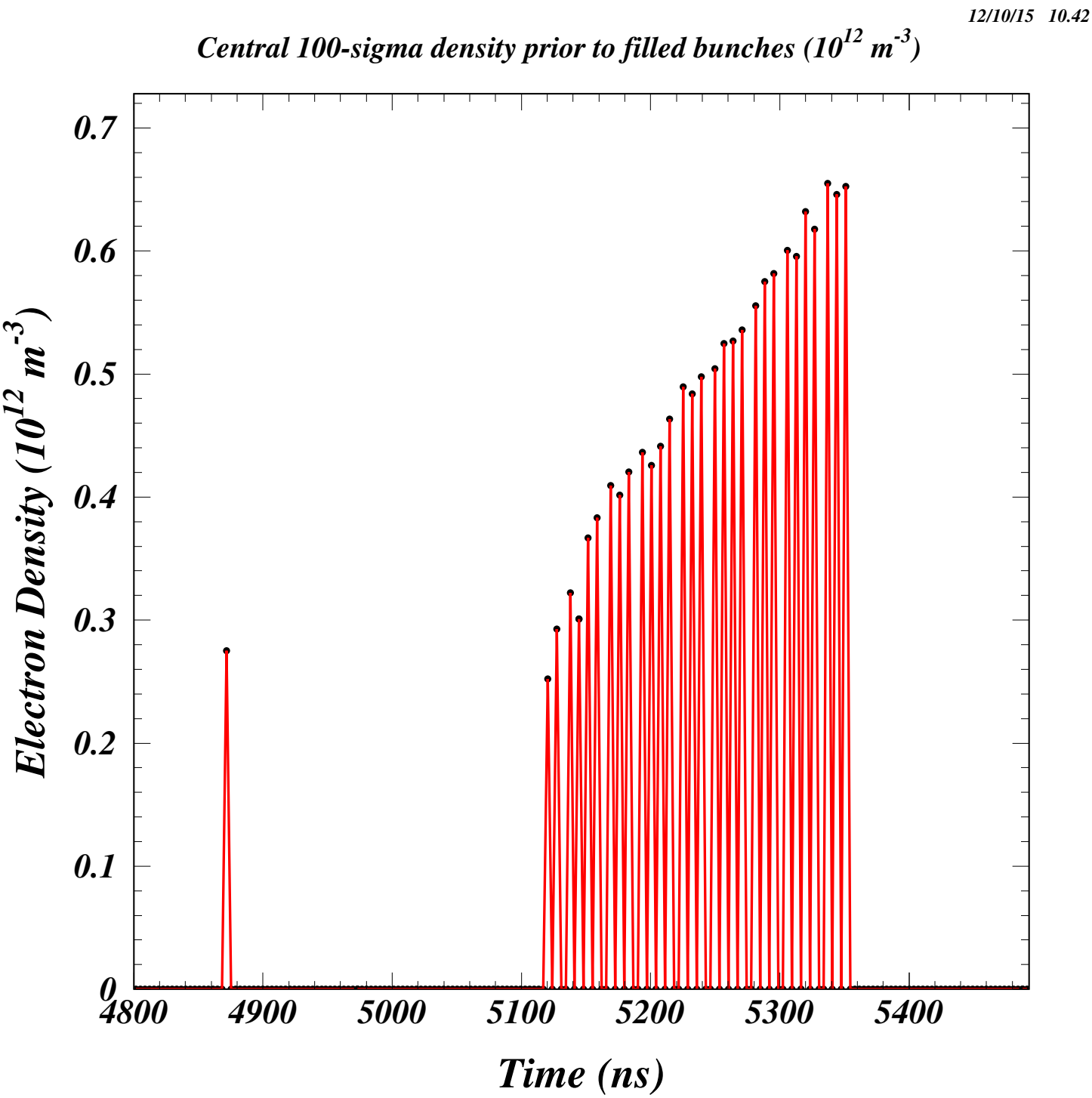

12/10/15 10.42
x 10 3
Beam-averaged density prior to filled bunches (10^12 m^-3)
Electron Density (10^12 m^-3)
1600
1400
1200
1000
800
600
400
200
0
4800
4900
5000
5100
5200
5300
5400
Time (ns)

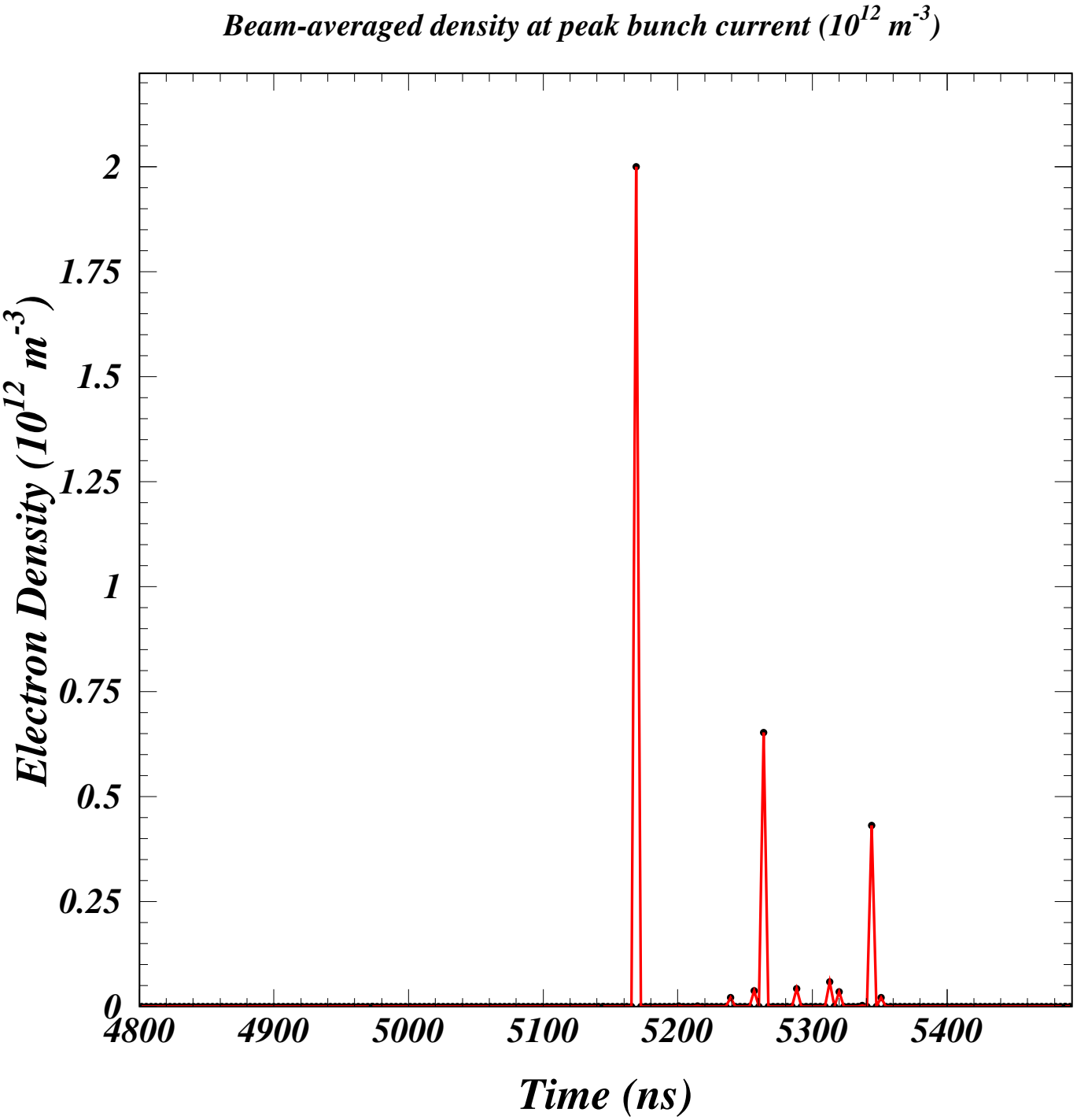
12/10/15 10.42

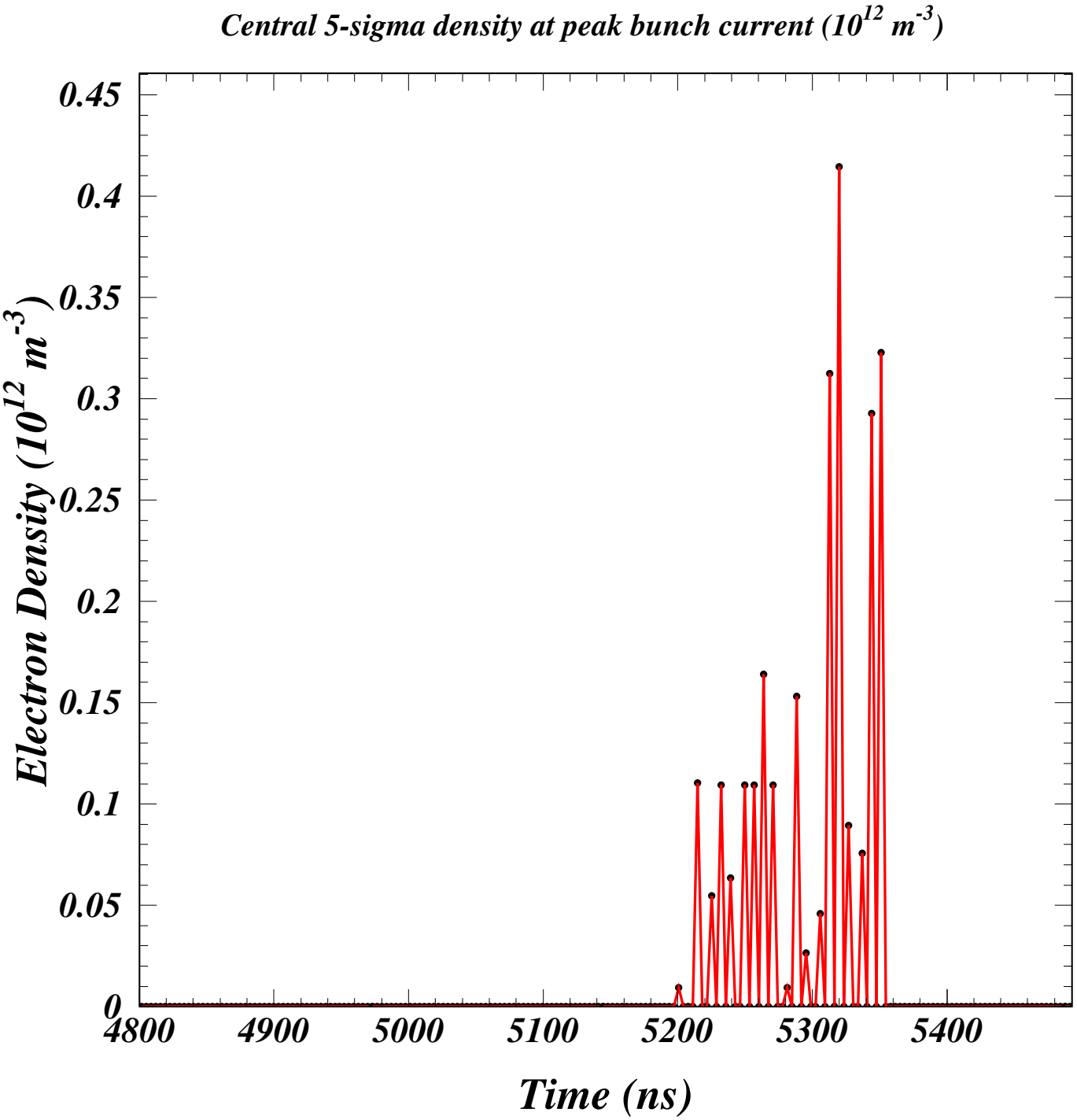

Central 5-sigma density prior to filled bunches (10^{12} m^{-3})
Electron Density (10^{12} m^{-3})
0.3
0.25
0.2
0.15
0.1
0.05
0
4800
4900
5000
5100
5200
5300
5400
Time (ns)

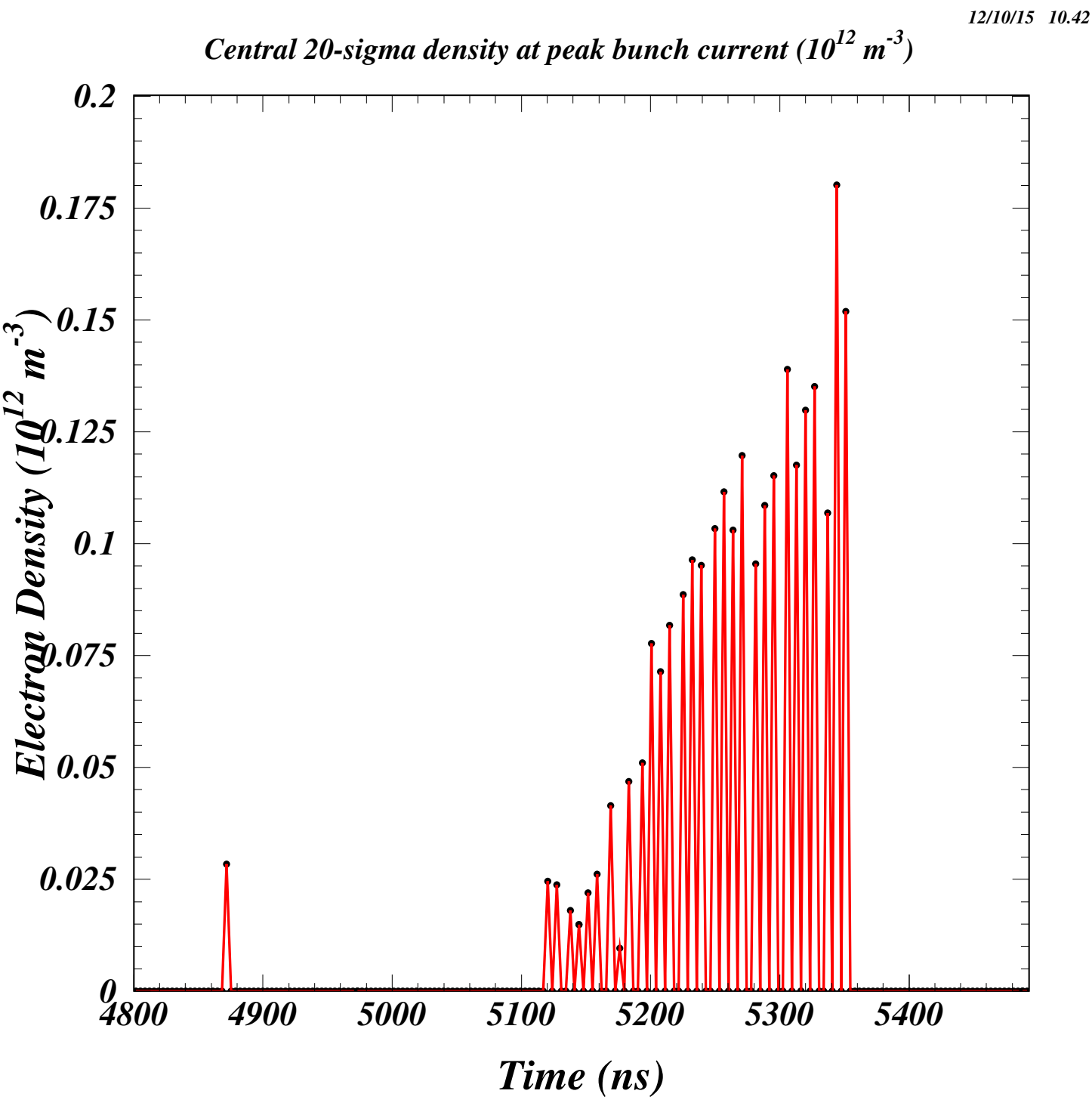
12/10/15 10.42

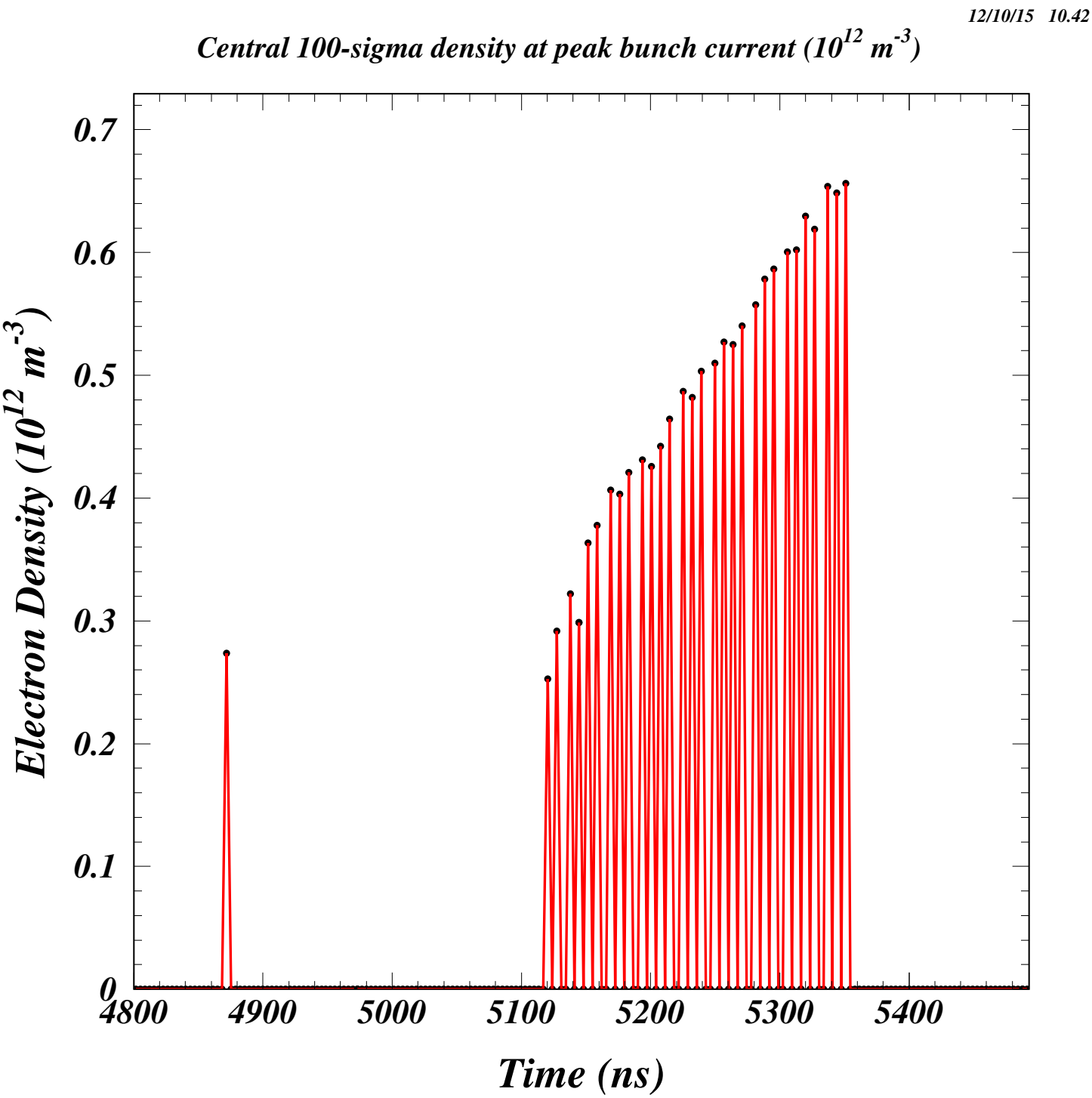

Central 20-sigma density prior to filled bunches (10^{12} m^{-3})
Electron Density (10^{12} m^{-3})
0.16
0.14
0.12
0.1
0.08
0.06
0.04
0.02
0
4800
4900
5000
5100
5200
5300
5400
Time (ns)


12/10/15 10.42
Central 100-sigma density prior to filled bunches (10^{12} m^{-3})
Electron Density (10^{12} m^{-3})
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0
4800
4900
5000
5100
5200
5300
5400
Time (ns)


Beam-averaged density at peak bunch current (10^{12} m^{-3})
Electron Density (10^{12} m^{-3})
2
1.75
1.5
1.25
1
0.75
0.5
0.25
0
4800
4900
5000
5100
5200
5300
5400
Time (ns)


Central 5-sigma density at peak bunch current (10^{12} m^{-3})
Electron Density (10^{12} m^{-3})
0.45
0.4
0.35
0.3
0.25
0.2
0.15
0.1
0.05
0
4800
4900
5000
5100
5200
5300
5400
Time (ns)


12/10/15 10.42
Central 20-sigma density at peak bunch current (10^{12} m^{-3})
Electron Density (10^{12} m^{-3})
0.2
0.175
0.15
0.125
0.1
0.075
0.05
0.025
0
4800
4900
5000
5100
5200
5300
5400
Time (ns)


12/10/15 10.42
Central 100-sigma density at peak bunch current (10^{12} m^{-3})
Electron Density (10^{12} m^{-3})
0
0.1
0.2
0.3
0.4
0.5
0.6
0.7
4800
4900
5000
5100
5200
5300
5400
Time (ns)